

17231  
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PTO/SB/05 (3-01)

Approved for use through 10/31/2002. OMB 0651-0032  
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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**UTILITY  
PATENT APPLICATION  
TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No. HAYES P23US0

First Inventor Kenneth D. McKibben

Title SHELL SAND CORE MACHINE

Express Mail Label No. EV 124389129 US

22581  
10735036  
U.S. PTO  
121203**APPLICATION ELEMENTS**

See MPEP chapter 600 concerning utility patent application contents.

**ADDRESS TO:**Assistant Commissioner for Patents  
Box Patent Application  
Washington DC 20231

1. ☒ \*Fee Transmittal Form (e.g., PTO/SB/17)  
(Submit an original and a duplicate for fee processing)
2. ☐ Applicant claims small entity status.  
See 37 CFR 1.27.
3. ☒ Specification [Total Pages 11 ]  
(preferred arrangement set forth below)
- Descriptive title of the invention
  - Cross References to Related Applications
  - Statement Regarding Fed sponsored R & D
  - Reference to sequence listing, a table, or a computer program listing appendix
  - Background of the Invention
  - Brief Summary of the Invention
  - Brief Description of the Drawings (if filed)
  - Detailed Description
  - Claim(s)
  - Abstract of the Disclosure
4. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets 7 ]
5. ☒ Oath or Declaration [Total Pages 3 ]
- a. ☒ Newly executed (original or copy)
  - b. ☐ Copy from a prior application (37 CFR 1.63(d))  
(for continuation/divisional with Box 18 completed)
  - i. ☐ **DELETION OF INVENTOR(S)**  
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
6. ☐ Application Data Sheet. See 37 CFR 1.76.

7. ☐ CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)
- a. ☐ Computer Readable Form (CRF)
  - b. ☐ Specification Sequence Listing on:
    - i. ☐ CD-ROM or CD-R (2 copies); or
    - ii. ☐ paper
  - c. ☐ Statement verifying identity of above copies

**ACCOMPANYING APPLICATION PARTS**

9. ☒ Assignment Papers (cover sheet & document(s))
10. ☐ 37 CFR 3.73(b) Statement ☐ Power of Attorney  
(when there is an assignee)
11. ☐ English Translation Document (if applicable)
12. ☐ Information Disclosure Statement (IDS)/PTO-1449 ☐ Copies of IDS Citations
13. ☒ Preliminary Amendment
14. ☐ Return Receipt Postcard (MPEP 503)  
(Should be specifically itemized)
15. ☐ Certified Copy of Priority Document(s)  
(if foreign priority is claimed)
16. ☐ Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.
17. ☐ Other: \_\_\_\_\_

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No: \_\_\_\_\_

Prior application information: Examiner \_\_\_\_\_ Group/Art Unit \_\_\_\_\_

For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

**19. CORRESPONDENCE ADDRESS**

☐ Customer Number or Bar Code Label (Insert Customer No. or Attach bar code label here) or ☒ Correspondence address below

Name VARNUM, RIDDERING, SCHMIDT &amp; HOWLETT LLP

Address P.O. BOX 352

City GRAND RAPIDS

State MICHIGAN

Zip Code 49501

Country U.S.

Telephone (616) 336-6000

Fax (616) 336-7000

Name (Print/Type) Peter X. Zerman

Registration No. (Attorney/Agent) 25,185

Signature

Date

12/10/03

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**FEE TRANSMITTAL**  
**for FY 2004**

Effective 10/01/2003. Patent fees are subject to annual revision

☐ Applicant claims small entity status. See 37 CFR 1.27**TOTAL AMOUNT OF PAYMENT** (\$1,068.00)**METHOD OF PAYMENT** (check all that apply)☒ Check ☐ Credit card ☐ Money ☐ Other ☐ None  
Order☒ Deposit Account:

Deposit Account No. 22-0257

Deposit Account Name

The Director is authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☐ Credit any overpayments☒ Charge any additional fee(s) or any underpayment of fee(s)☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.**FEE CALCULATION****1. BASIC FILING FEE**

Large Entity		Small Entity		Fee Description	Fee Paid
Fee	Code (\$)	Fee	Code (\$)		
	1001		2001	Utility Filing Fee	780.00
	1002		2002	Design Filing Fee	
	1003		2003	Plant Filing Fee	
	1004		2004	Reissue Filing Fee	
	1005		2005	Provisional Filing Fee	
<b>SUBTOTAL (1)</b>					<b>(\$ 780.00)</b>

**2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE**

Fee from  
Total Claims 20\*\* = 3 X \$86.00 = \$258.00  
Independent Claims 6 - 3\*\* = 3 X \$86.00 = \$258.00  
Multiple Dependent Claims =

Large Entity		Small Entity		Fee Description
Fee	Code (\$)	Fee	Code (\$)	
	1202		2202	Claims in excess of 20
	1201		2201	Independent claims in excess of 3
	1203		2203	Multiple dependent claim, if not paid
	1204		2204	**Reissue dependent claims over org. patent
	1205		2205	**Reissue claims in excess of 20 and over original patent

**SUBTOTAL (2)** (\$ 258.00)

\*\*or number previously paid, if greater; For Reissues, see above

**SUBMITTED BY**

Name (Print/Type) PETER VISSERMAN

Signature

Registration No. 25,185  
(Attorney/Agent)

Telephone

616/336-6000

Date

12/10/03

**Complete if Known**

Application Number

Filing Date

First Named Inventor

Kenneth D. McKibben

Examiner Name

Art Unit

Attorney Docket No.

P23US

**FEE CALCULATION (continued)****3. ADDITIONAL FEES**

Large Entity		Small Entity		Fee Description
Fee	Code (\$)	Fee	Code (\$)	
	1051		2051	Surcharge - late filing fee or oath
	1052		2052	Surcharge - late provisional filing fee or cover sheet
	1053		1053	Non-English specification
	1812		1812	For filing a request for <i>ex parte</i> reexamination
	1804		1804	Requesting publication of SIR prior to Examiner action
	1805		1805	Requesting publication of SIR after Examiner action
	1251		2251	Extension for reply within first month
	1252		2252	Extension for reply within second month
	1253		2253	Extension for reply within third month
	1254		2254	Extension for reply within fourth month
	1255		2255	Extension for reply within fifth month
	1401		2401	Notice of Appeal
	1402		2402	Filing a brief in support of an appeal
	1403		2403	Request for oral hearing
	1451		1451	Petition to institute a public use proceeding
	1452		2452	Petition to revive - unavoidable
	1453		2453	Petition to revive - unintentional
	1501		2501	Utility issue fee (or reissue)
	1502		2502	Design issue fee
	1503		2503	Plant issue fee
	1460		1460	Petitions to the Commissioner
	1807		1807	Processing fee under 37 CFR 1.17(q)
	1806		1806	Submission of information Disclosure Stmt
	8021		1021	Recording each patent assignment per property (times number of properties)
	1809		2809	Filing a submission after final rejection (37 CFR 1.129(a))
	1810		2810	For each additional invention to be examined (37 CFR 1.129(b))
	1801		2801	Request for Continued Examination (RCE)
	1802		1802	Request for expedited examination of a design application

Other fee (specify)

\*Reduced by Basic Filing Fee Paid

**SUBTOTAL (3)** (\$ 40.00)

(Complete (if applicable))

**WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.**

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and selection option 2.

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant[s]: McKIBBEN, Kenneth D.  
 For: SHELL SAND CORE MACHINE  
 Serial No.:  
 Filed:

Commissioner for Patents  
 P.O. Box 1450  
 Alexandria, VA 22313-1450

"Express Mail" Mailing Label No.:  
 EV 124389129 US

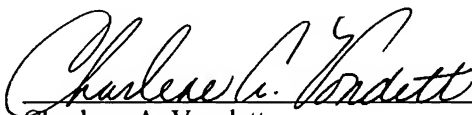
Date of Deposit: December 12, 2003

Sir:

I hereby certify that the documents listed below are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. § 1.10 on the date indicated above and addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

<input checked="" type="checkbox"/> Transmittal Form	<input checked="" type="checkbox"/> Declaration for Patent Application	<input type="checkbox"/> Status Letter
<input checked="" type="checkbox"/> Fee Transmittal Form <input checked="" type="checkbox"/> Check attached for \$1,068.00	<input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address	<input type="checkbox"/> Notice of Allowance and Issue Fee Due
<input type="checkbox"/> Provisional Application for Patent Cover Transmittal <input type="checkbox"/> Specification ___ Pages <input type="checkbox"/> Claims ___ Pages	<input type="checkbox"/> Information Disclosure Cover Letter <input type="checkbox"/> IDS PTO 1449 <input type="checkbox"/> ___ References	<input type="checkbox"/> Certificate of Correction
<input checked="" type="checkbox"/> Design/Utility Application Transmittal <input checked="" type="checkbox"/> Specification 2 Pages <input checked="" type="checkbox"/> Claims 2 Pages	<input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> ___ References	<input type="checkbox"/> Maintenance Fee Transmittal Form <input type="checkbox"/> Maintenance Fee Payment
<input type="checkbox"/> PCT <input type="checkbox"/> Transmittal Letter to the United States Receiving Office <input type="checkbox"/> PCT Fee Calculation Sheet <input type="checkbox"/> PCT Request (___ Pages) <input type="checkbox"/> PCT General Power of Attorney Cover Letter <input type="checkbox"/> PCT General Power of Attorney	<input checked="" type="checkbox"/> Drawing(s) <input type="checkbox"/> Letter to Official Draftsman	<input checked="" type="checkbox"/> Itemized Postcard
<input type="checkbox"/> Request Transmittal (RCE or CPA)	<input type="checkbox"/> Response to Missing Parts /Incomplete Application	<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	Preliminary Amendment
<input checked="" type="checkbox"/> Assignment Papers (for an Application)	<input type="checkbox"/> Request for Refund	

Dated: December 12, 2003

  
 Charlene A. Vondett  
 VARNUM, RIDDERING, SCHMIDT & HOWLETT LLP  
 Bridgewater Place  
 Post Office Box 352  
 Grand Rapids, Michigan 49501-0352  
 (616) 336-6000